0590
1119

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/961,201**

DATE: 12/07/2001
TIME: 12:18:52

Input Set : **N:\Crf3\RULE60\09961201.txt**
Output Set: **N:\CRF3\12072001\I961201.raw**

SEQUENCE LISTING
```
 3  (1) GENERAL INFORMATION:
 5      (i) APPLICANT: DIXIT, VISHVA M.
 6                     HE, WEI-WU
 7                     KIKLY, KRISTINE K.
 8                     RUBEN, STEVEN M.
10     (ii) TITLE OF INVENTION: INTERLEUKIN-1 BETA CONVERTING
11                              ENZYME LIKE APOPTOTIC PROTEASE-6
13    (iii) NUMBER OF SEQUENCES: 11
15     (iv) CORRESPONDENCE ADDRESS:
16          (A) ADDRESSEE: Ratner & Prestia
17          (B) STREET: P.O. Box 980
18          (C) CITY: Valley Forge
19          (D) STATE: PA
20          (E) COUNTRY: USA
21          (F) ZIP: 19482
23      (v) COMPUTER READABLE FORM:
24          (A) MEDIUM TYPE: Diskette
25          (B) COMPUTER: IBM Compatible
26          (C) OPERATING SYSTEM: DOS
27          (D) SOFTWARE: FastSEQ for Windows Version 2.0
29     (vi) CURRENT APPLICATION DATA:
C--> 30         (A) APPLICATION NUMBER: US/09/961,201
C--> 31         (B) FILING DATE: 24-Sep-2001
32              (C) CLASSIFICATION:
34    (vii) PRIOR APPLICATION DATA:
36          (A) APPLICATION NUMBER: 09/300,328
37          (B) FILING DATE:
39          (A) APPLICATION NUMBER: US/08/852,936
40          (B) FILING DATE: 08-MAY-1997
42          (A) APPLICATION NUMBER: 60/018,961
43          (B) FILING DATE: 05-JUN-1996
45          (A) APPLICATION NUMBER: 60/020,344
46          (B) FILING DATE: 23-MAY-1996
48          (A) APPLICATION NUMBER: 60/017,949
49          (B) FILING DATE: 20-MAY-1996
51   (viii) ATTORNEY/AGENT INFORMATION:
52          (A) NAME: Prestia, Paul F
53          (B) REGISTRATION NUMBER: 23,031
54          (C) REFERENCE/DOCKET NUMBER: p50483-2
56     (ix) TELECOMMUNICATION INFORMATION:
57          (A) TELEPHONE: 610-407-0700
58          (B) TELEFAX: 610-407-0700
59          (C) TELEX: 846169
62  (2) INFORMATION FOR SEQ ID NO: 1:
64      (i) SEQUENCE CHARACTERISTICS:
65          (A) LENGTH: 416 amino acids
```

ENTERED

```
66              (B) TYPE: amino acid
67              (C) STRANDEDNESS: single
68              (D) TOPOLOGY: linear
70        (ii) MOLECULE TYPE: protein
72        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
74     Met Asp Glu Ala Asp Arg Arg Leu Leu Arg Arg Cys Arg Leu Arg Leu
75      1               5                  10                  15
76     Val Glu Glu Leu Gln Val Asp Gln Leu Trp Asp Val Leu Leu Ser Arg
77                  20                  25                  30
78     Glu Leu Phe Arg Pro His Met Ile Glu Asp Ile Gln Arg Ala Gly Ser
79              35                  40                  45
80     Gly Ser Arg Arg Asp Gln Ala Arg Gln Leu Ile Ile Asp Leu Glu Thr
81          50                  55                  60
82     Arg Gly Ser Gln Ala Leu Pro Leu Phe Ile Ser Cys Leu Glu Asp Thr
83     65                  70                  75                  80
84     Gly Gln Asp Met Leu Ala Ser Phe Leu Arg Thr Asn Arg Gln Ala Gly
85                  85                  90                  95
86     Lys Leu Ser Lys Pro Thr Leu Glu Asn Leu Thr Pro Val Val Leu Arg
87                  100                 105                 110
88     Pro Glu Ile Arg Lys Pro Glu Val Leu Arg Pro Glu Thr Pro Arg Pro
89              115                 120                 125
90     Val Asp Ile Gly Ser Gly Gly Phe Gly Asp Val Gly Ala Leu Glu Ser
91          130                 135                 140
92     Leu Arg Gly Asn Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys
93     145                 150                 155                 160
94     Gly His Cys Leu Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly
95                  165                 170                 175
96     Leu Arg Thr Arg Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg
97                  180                 185                 190
98     Arg Phe Ser Ser Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr
99              195                 200                 205
100    Ala Lys Lys Met Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His
101          210                 215                 220
102    Gly Ala Leu Asp Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln
103    225                 230                 235                 240
104    Ala Ser His Leu Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys
105                  245                 250                 255
106    Pro Val Ser Val Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys
107                  260                 265                 270
108    Pro Ser Leu Gly Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly
109              275                 280                 285
110    Gly Glu Gln Lys Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu
111          290                 295                 300
112    Asp Glu Ser Pro Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln
113    305                 310                 315                 320
114    Glu Gly Leu Arg Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro
115                  325                 330                 335
116    Thr Pro Ser Asp Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val
117              340                 345                 350
```

Input Set : **N:\Crf3\RULE60\09961201.txt**
Output Set: **N:\CRF3\12072001\I961201.raw**

```
118  Ser Trp Arg Asp Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp
119          355                 360                 365
120  Asp Ile Phe Glu Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu
121      370                 375                 380
122  Leu Arg Val Ala Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met
123  385                 390                 395                 400
124  Pro Gly Cys Phe Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
125              405                 410                 415
127  (2) INFORMATION FOR SEQ ID NO: 2:
129        (i) SEQUENCE CHARACTERISTICS:
130            (A) LENGTH: 1578 base pairs
131            (B) TYPE: nucleic acid
132            (C) STRANDEDNESS: single
133            (D) TOPOLOGY: linear
135       (ii) MOLECULE TYPE: cDNA
137       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
139  GCCATGGACG AAGCGGATCG GCGGCTCCTG CGGCGGTGCC GGCTGCGGCT GGTGGAAGAG    60
140  CTGCAGGTGG ACCAGCTCTG GGACGTCCTG CTGAGCCGCG AGCTGTTCAG GCCCCATATG   120
141  ATCGAGGACA TCCAGCGGGC AGGCTCTGGA TCTCGGCGGG ATCAGGCCAG GCAGCTGATC   180
142  ATAGATCTGG AGACTCGAGG GAGTCAGGCT CTTCCTTTGT TCATCTCCTG CTTAGAGGAC   240
143  ACAGGCCAGG ACATGCTGGC TTCGTTTCTG CGAACTAACA GGCAAGCAGG AAAGTTGTCG   300
144  AAGCCAACCC TAGAAAACCT TACCCCAGTG GTGCTCAGAC CAGAGATTCG CAAACCAGAG   360
145  GTTCTCAGAC CGGAAACACC CAGACCAGTG GACATTGGTT CTGGAGGATT CGGTGATGTC   420
146  GGTGCTCTTG AGAGTTTGAG GGGAAATGCA GATTTGGCTT ACATCCTGAG CATGGAGCCC   480
147  TGTGGCCACT GCCTCATTAT CAACAATGTG AACTTCTGCC GTGAGTCCGG GCTCCGCACC   540
148  CGCACTGGCT CCAACATCGA CTGTGAGAAG TTGCGGCGTC GCTTCTCCTC GCTGCATTTC   600
149  ATGGTGGAGG TGAAGGGCGA CCTGACTGCC AAGAAAATGG TGCTGGCTTT GCTGGAGCTG   660
150  GCGCGGCAGG ACCACGGTGC TCTGGACTGC TGCGTGGTGG TCATTCTCTC TCACGGCTGT   720
151  CAGGCCAGCC ACCTGCAGTT CCCAGGGGCT GTCTACGGCA CAGATGGATG CCCTGTGTCG   780
152  GTCGAGAAGA TTGTGAACAT CTTCAATGGG ACCAGCTGCC CCAGCCTGGG AGGGAAGCCC   840
153  AAGCTCTTTT TCATCCAGGC CTGTGGTGGG GAGCAGAAAG ACCATGGGTT TGAGGTGGCC   900
154  TCCACTTCCC CTGAAGACGA GTCCCCTGGC AGTAACCCCG AGCCAGATGC CACCCCGTTC   960
155  CAGGAAGGTT TGAGGACCTT CGACCAGCTG GACGCCATAT CTAGTTTGCC CACACCCAGT  1020
156  GACATCTTTG TGTCCTACTC TACTTTCCCA GGTTTTGTTT CCTGGAGGGA CCCCAAGAGT  1080
157  GGCTCCTGGT ACGTTGAGAC CCTGGACGAC ATCTTTGAGC AGTGGGCTCA CTCTGAAGAC  1140
158  CTGCAGTCCC TCCTGCTTAG GGTCGCTAAT GCTGTTTCGG TGAAAGGGAT TTATAAACAG  1200
159  ATGCCTGGTT GCTTTAATTT CCTCCGGAAA AAACTTTTCT TTAAAACATC ATAAGGCCAG  1260
160  GGCCCCTCAC CCTGCCTTAT CTTGCACCCC AAAGCTTTCC TGCCCCAGGC CTGAAAGAGG  1320
161  CTGAGGCCTG GACTTTCCTG CAACTCAAGG ACTTTGNAGC CGGCACAGGG TCTGCTCTTT  1380
162  CTCTGCCAGT GACAGACAGG CTCTTAGCAG CTTCCAGATT GACGACAAGT GCTGAACAGT  1440
163  GGAGGAAGAG GGACAGATGA ATGCCGTGGA TTGCACGTGG NCTCTTGAGC AGTGGCTGGT  1500
164  CCAGGGCTAG TGACTTGGTG TCCCATGATC CCTGTGTTGG TCTCTAGGAG CAGGGATTAA  1560
165  CCTCTGCACT ACTGACAT                                                1578
167  (2) INFORMATION FOR SEQ ID NO: 3:
169        (i) SEQUENCE CHARACTERISTICS:
170            (A) LENGTH: 639 base pairs
171            (B) TYPE: nucleic acid
172            (C) STRANDEDNESS: single
173            (D) TOPOLOGY: linear
```

RAW SEQUENCE LISTING   DATE: 12/07/2001
PATENT APPLICATION: US/09/961,201   TIME: 12:18:53

Input Set : N:\Crf3\RULE60\09961201.txt
Output Set: N:\CRF3\12072001\I961201.raw

```
175    (ii) MOLECULE TYPE: cDNA
177    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
179 CTGACTGCCA AGAAAATGGT GCTGGCTTTG CTGGAGCTGG CGCGGCAGGA CCACGGTGCT    60
180 CTGGACTGCT GCGTGGTGGT CATTCTCTCT CACGGCTGTC AGGCCAGCCA CCTGCAGTTC   120
181 CCAGGGGCTG TCTACGGCAC AGATGGATGC CCTGTGTCGG TCGAAAAGAT TGTGAACATC   180
182 TTCAATGGGA CCAGCTGCCC CAGCCTGGGA GGGAAGCCCA AGCTCTTTTT CATCCAGGCC   240
183 TGTGGTGGGG AGCAGAAAGA CCATGGGTTT GAGGTGGCCT CCACTTCCCC TGAAGACGAG   300
184 TCCCCTGGCA GTAACCCCGA GCCAGATGCC ACCCCGTTCC AGGAAGGTTT GAGGACCTTC   360
185 GACCAGCTGG ACGCCATATC TAGTTTGCCC ACACCCAGTG ACATCTTTGT GTCCTACTCT   420
186 ACTTTCCCAG GTTTTGTTTC CTGGAGGGAC CCCAAGAGTG GCTCCTGGTA CGTTGAGACC   480
187 CTGGACGACA TCTTTGAGCA GTGGGCTCAC TCTGAAGACC TGCAGTCCCT CCTGCTTAGG   540
188 GTCGCTAATG CTGTTTCGGT GAAAGGGATT TATAAACAGA TGCCTGGTTG CTTTAATTTC   600
189 CTCCGGAAAA AACTTTTCTT TTAAAACATC ATAAGGCAG                         639
191 (2) INFORMATION FOR SEQ ID NO: 4:
193    (i) SEQUENCE CHARACTERISTICS:
194        (A) LENGTH: 203 amino acids
195        (B) TYPE: amino acid
196        (C) STRANDEDNESS: single
197        (D) TOPOLOGY: linear
199    (ii) MOLECULE TYPE: protein
201    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
203 Met Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu
204  1           5               10              His Gly Cys    15
205 Asp Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His
206          20              25              30
207 Leu Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser
208          35              40              45
209 Val Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu
210      50              55              60
211 Gly Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln
212 65              70              75              80
213 Lys Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser
214          85              90              95
215 Pro Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu
216          100             105             110
217 Arg Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser
218          115             120             125
219 Asp Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg
220      130             135             140
221 Asp Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe
222 145             150             155             160
223 Glu Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val
224          165             170             175
225 Ala Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys
226          180             185             190
227 Phe Asn Phe Leu Arg Lys Lys Leu Phe Phe Met
228          195             200
230 (2) INFORMATION FOR SEQ ID NO: 5:
232    (i) SEQUENCE CHARACTERISTICS:
```

RAW SEQUENCE LISTING   DATE: 12/07/2001
PATENT APPLICATION: US/09/961,201   TIME: 12:18:53

Input Set : **N:\Crf3\RULE60\09961201.txt**
Output Set: **N:\CRF3\12072001\I961201.raw**

```
233              (A) LENGTH: 34 base pairs
234              (B) TYPE: nucleic acid
235              (C) STRANDEDNESS: single
236              (D) TOPOLOGY: linear
238         (ii) MOLECULE TYPE: cDNA
240         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
242 GAACGGGGTA CCGCCATGGA CGAAGCGGAT CGGC                      34
244 (2) INFORMATION FOR SEQ ID NO: 6:
246         (i) SEQUENCE CHARACTERISTICS:
247              (A) LENGTH: 60 base pairs
248              (B) TYPE: nucleic acid
249              (C) STRANDEDNESS: single
250              (D) TOPOLOGY: linear
252         (ii) MOLECULE TYPE: cDNA
254         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
256 TGCTCTAGAT TAGTGGTGGT GGTGGTGGTG TGATGTTTTA AAGAAAAGTT TTTTCCGGAG     60
258 (2) INFORMATION FOR SEQ ID NO: 7:
260         (i) SEQUENCE CHARACTERISTICS:
261              (A) LENGTH: 41 base pairs
262              (B) TYPE: nucleic acid
263              (C) STRANDEDNESS: single
264              (D) TOPOLOGY: linear
266         (ii) MOLECULE TYPE: cDNA
268         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
270 AAGCTCTTTT TCATCCAGGC CGCGGGTGGG GAGCAGAAGA C                41
272 (2) INFORMATION FOR SEQ ID NO: 8:
274         (i) SEQUENCE CHARACTERISTICS:
275              (A) LENGTH: 39 base pairs
276              (B) TYPE: nucleic acid
277              (C) STRANDEDNESS: single
278              (D) TOPOLOGY: linear
280         (ii) MOLECULE TYPE: cDNA
282         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
284 GTCTTTCTGC TCCCCACCCG CGGCCTGGAT GAAAAAAGC                  39
286 (2) INFORMATION FOR SEQ ID NO: 9:
288         (i) SEQUENCE CHARACTERISTICS:
289              (A) LENGTH: 66 base pairs
290              (B) TYPE: nucleic acid
291              (C) STRANDEDNESS: single
292              (D) TOPOLOGY: linear
294         (ii) MOLECULE TYPE: cDNA
296         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
298 TGCTCTAGAT TACTTGTCAT CGTCGTCCTT GTAGTCTGAT GTTTTAAAGT TAAGTTTTTT     60
299 CCGGAG                                                     66
301 (2) INFORMATION FOR SEQ ID NO: 10:
303         (i) SEQUENCE CHARACTERISTICS:
304              (A) LENGTH: 5 amino acids
305              (B) TYPE: amino acid
306              (C) STRANDEDNESS: single
```

VERIFICATION SUMMARY   DATE: 12/07/2001
PATENT APPLICATION: US/09/961,201   TIME: 12:18:54

Input Set : **N:\Crf3\RULE60\09961201.txt**
Output Set: **N:\CRF3\12072001\I961201.raw**

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]